

09/992,630

(FILE 'HOME' ENTERED AT 15:02:48 ON 27 FEB 2004)

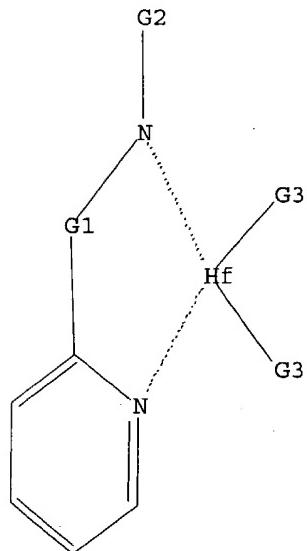
FILE 'REGISTRY' ENTERED AT 15:03:21 ON 27 FEB 2004

L1 STRUCTURE uploaded

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 C, Si

G2 Cb, Hy

G3 X, Ob, Hy, Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 15:04:04 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 3 TO ITERATE

100.0% PROCESSED 3 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 3 TO 163

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 15:04:11 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 73 TO ITERATE

100.0% PROCESSED 73 ITERATIONS 12 ANSWERS

SEARCH TIME: 00.00.01

L3 12 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

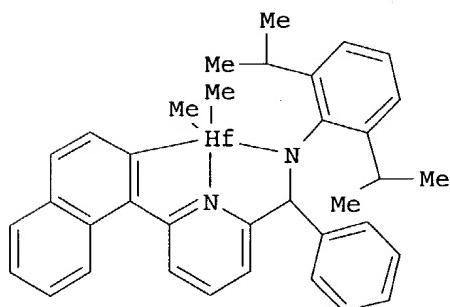
SINCE FILE TOTAL

α -olefins, C4-20 dienes, and styrenic compds. The film has at least one of (i) a haze value < 10, (ii) 45 degree gloss > 65, and (iii) a dart value > 100 g/mil. In a preferred embodiment, the layer comprises a copolymer characterized as having at least one of the following properties: (i) 13C NMR peaks of about equal intensity corresponding to a regio-error at about 14.6 and about 15.7 ppm, (ii) a B-value > 1.4 when the comonomer content of the copolymer is at least 3%, (iii) a skewness index Six > -1.20, (iv) a DSC curve with T_{me} that remains essentially the same and T_{max} that decreases as the amount of comonomer in the copolymer increases, and (v) an X-ray diffraction pattern that reports more gamma-form crystals than a comparable copolymer prepared with a Ziegler-Natta catalyst. The propylene copolymers are produced using non-metallocene, metal-centered, heteroaryl ligand-containing catalysts. Blends and sealing compns. comprising the propylene copolymers are also claimed. Thus, isotactic ethylene-propylene copolymers comprising 5-8% of ethylene were produced by continuous solution polymerization in toluene and blown into films (50μm) having a haze value of 2-5, 45 degree gloss of 74-88, and MD tear of 145-375 g/mil.

L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:376914 CAPLUS
 DN 138:385930
 TI Production of propylene copolymers using non-metallocene heteroaryl ligand-containing metal-centered catalysts
 IN Stevens, James C.; Vanderlende, Daniel D.
 PA The Dow Chemical Company, USA
 SO PCT Int. Appl.; 188 pp.
 CODEN: PIXXD2

DT Patent
 LA English
 FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003040201	A1	20030515	WO 2002-US14158	20020506
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2003194575	A1	20031016	US 2002-289168	20021105
PRAI	US 2001-338881P	P	20011106		
OS	MARPAT				
GI					



AB Copolymers comprising propylene, ethylene and/or one or more unsatd. monomers are characterized as having at least one of the following properties: (a) ^{13}C NMR peaks of about equal intensity corresponding to a regio-error at about 14.6 and about 15.7 ppm, (b) a B-value > 1.4 when the comonomer content of the copolymer is at least 3%, (c) a skewness index Six > -1.20 , (d) a DSC curve with T_{me} that remains essentially the same and T_{max} that decreases as the amount of comonomer in the copolymer increases, and (e) an X-ray diffraction pattern that reports more gamma-form crystals than a comparable copolymer prepared with a Ziegler-Natta catalyst. These propylene polymers are produced using a non-metallocene, metal-centered, heteroaryl ligand-containing catalyst. The polymers can be blended with other polymers, such as propylene copolymers produced with metallocene catalysts, or the blends can be produced *in situ* by polymerizing monomers in a series reactor process using a non-metallocene catalyst of the invention in a first reactor and a metallocene catalyst in a second reactor. The copolymers and blends can be used in manufacture of films, sheets, foams, fibers and molded articles. Thus, a non-metallocene heteroaryl ligand-containing hafnium-centered catalyst (I) was produced by reacting tetrakis(dimethylaminato)hafnium with 2-[2,6-diisopropylphenylamino]phenylmethyl-6-(1-naphthyl)pyridine in pentane, followed by reacting the intermediate with trimethylaluminum in pentane/hexane. Isotactic ethylene-propylene copolymer was produced by continuous solution polymerization in toluene using the non-metallocene catalyst,
 bis(hydrogenated tallow alkyl)methylammonium tetrakis(pentafluorophenyl)borate and Me aluminoxane (PMAO-IP) as an activator.

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2003:376910 CAPLUS
 DN 138:369385
 TI Supported catalysts for manufacture of polymers
 IN Coalter, Joseph N., III; Van Egmond, Jan W.; Fouts, Lewis J., Jr.; Painter, Roger B.; Vosepjka, Paul C.
 PA Dow Global Technologies Inc., USA
 SO PCT Int. Appl., 25 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003040195	A1	20030515	WO 2002-US35617	20021105
	WO 2003040195	B1	20030828		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 2003204017	A1	20031030	US 2002-139786	20020505
PRAI	US 2001-338881P	P	20011106		
	US 2002-139786	A	20020505		
OS	MARPAT 138:369385				
AB	A supported catalyst composition and process for preparing high mol. weight polymers of one or more addition polymerizable monomers, especially propylene, said composition				

comprising: (1) a substrate comprising the reaction product of a solid, particulated, high surface area, metal oxide, metalloid oxide, or a mixture thereof and an organoaluminum compound, (2) a Group 4 metal complex of a polyvalent, Lewis base ligand; and optionally, (3) an activating cocatalyst for the metal complex.

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2002:449730 CAPLUS
DN 137:6602
TI Catalysts for copolymerizing ethylene and isobutylene and copolymers
IN Boussie, Thomas R.; Diamond, Gary M.; Goh, Christopher; Hall, Keith A.; La Pointe, Anne M.; Leclerc, Margarete K.; Lund, Cheryl; Murphy, Vince
PA Symyx Technologies, Inc., USA
SO PCT Int. Appl., 147 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002046249	A2	20020613	WO 2001-US44147	20011106
	WO 2002046249	A3	20030213		
	WO 2002046249	C2	20030501		
		W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
		RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		
	AU 2002041517	A5	20020618	AU 2002-41517	20011106
	US 2002137845	A1	20020926	US 2001-992760	20011106
	US 2002142912	A1	20021003	US 2001-992630	20011106
	US 2002147288	A1	20021010	US 2001-992385	20011106
	US 2002156279	A1	20021024	US 2001-992789	20011106
	US 2002173419	A1	20021121	US 2001-992148	20011106
	US 2002177711	A1	20021128	US 2001-993031	20011106
	EP 1364974	A2	20031126	EP 2003-19010	20011106
		R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV, FI, MK, CY, AL, TR		
PRAI	US 2000-246781P	P	20001107		
	US 2001-301666P	P	20010628		
	EP 2001-993629	A3	20011106		
	WO 2001-US44147	W	20011106		
OS	MARPAT 137:6602				
AB	Compns., metal-ligand complexes and arrays with pyridyl amine ligands catalyze the title polymerization. The catalysts comprise ligand R1NHTQ, where				
Q	= pyridyl; T = CR ₂ R ₃ ; R ₂ , R ₃ = H, hydrocarbyl, silyl, boryl, phosphino, amino, thio, seleno, halide, nitro, and mixts.; optionally R ₁₋₃ may form a ring; R ₁ = (substituted) aryl, hafnium precursor, optionally ≥1 activator and trialkylaluminum. Catalysts with Hf metal centers have high performance characteristics, including higher comonomer incorporation into ethylene/olefin copolymers, for example with, 1-octene, isobutylene or styrene, which are also exemplified. Certain of the catalysts are for polymerizing propylene to high mol. weight isotactic polypropylene in a solution process at a variety of polymerization conditions, which are also exemplified.				

L4 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

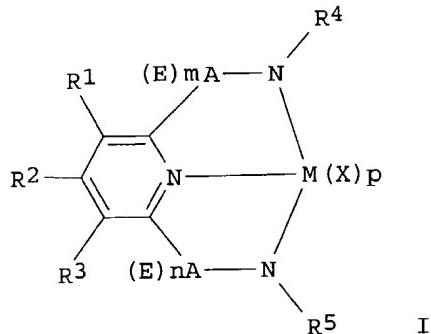
AN 2002:368531 CAPLUS
 DN 136:386578
 TI Substituted pyridyl amine ligands, complexes, catalysts and processes for polymerizing olefins
 IN Boussie, Thomas R.; Diamond, Gary M.; Goh, Christopher; Hall, Keith A.; Lapointe, Anne M.; Leclerc, Margaete K.; Lund, Cheryl; Murphy, Vince
 PA Symyx Technologies, Inc., USA
 SO PCT Int. Appl., 195 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002038628	A2	20020516	WO 2001-US43420	20011106
	WO 2002038628	A3	20030522		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002025662	A5	20020521	AU 2002-25662	20011106
	US 2002137845	A1	20020926	US 2001-992760	20011106
	US 2002142912	A1	20021003	US 2001-992630	20011106
	US 2002147288	A1	20021010	US 2001-992385	20011106
	US 2002156279	A1	20021024	US 2001-992789	20011106
	US 2002173419	A1	20021121	US 2001-992148	20011106
	US 2002177711	A1	20021128	US 2001-993031	20011106
	EP 1334139	A2	20030813	EP 2001-993629	20011106
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	EP 1364974	A2	20031126	EP 2003-19010	20011106
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV, FI, MK, CY, AL, TR				
PRAI	US 2000-246781P	P	20001107		
	US 2001-301666P	P	20010628		
	EP 2001-993629	A3	20011106		
	WO 2001-US43420	W	20011106		
OS	MARPAT 136:386578				
AB	Certain of these catalysts with Hf metal centers have high performance characteristics, including higher comonomer incorporation into ethylene/olefin copolymers, where olefins are for example, 1-octene, isobutylene or styrene. The catalysts are particularly effective at polymerizing propylene to high mol. weight isotactic polypropylene in a solution process at a variety of polymerization conditions.				

L4 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:124194 CAPLUS
 DN 134:178968
 TI Manufacture of olefin (co)polymers in high polymerization activity
 IN Sugimura, Kenji; Takagi, Sachihiro; Fujita, Terunori
 PA Mitsui Chemicals Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 16 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI JP 2001048925 A2 20010220 JP 1999-229187 19990813
 PRAI JP 1999-229187 19990813
 OS MARPAT 134:178968
 GI



AB Olefins are (co)polymerized in the presence of catalysts comprising (A) transition metal compds. I [M = Group 3-6 metal; R1-R5 = H, halo, hydrocarbyl, etc.; A = carbon, etc.; m, n = 0-2; E = substituent containing carbon, nitrogen, etc.; X = H, halo, etc.] and (B) ≥ 1 compds. selected from organometallic compds., organic aluminomoxy compds., and compds. forming ion pairs by reaction with A, A and B being added in the polymerization systems as slurries of aliphatic or alicyclic hydrocarbons.

Thus, ethylene-1-octene copolymer with ethylene content 94 mol% was prepared at 25° and ambient temperature in the presence of hexane slurry of Me aluminoxane and heptane solution of I (M = Zr, R1-R3 = H, R4-R5 = 2,6-diisopropylphenyl, A = carbon, m = n = 0, p = 2, X = Cl).

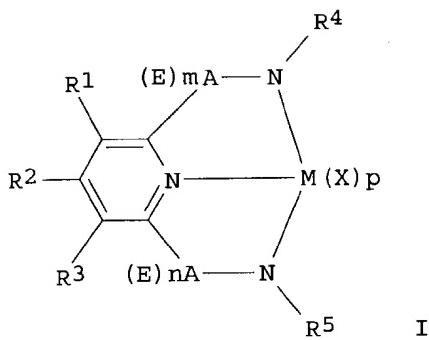
L4 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 2001:124187 CAPLUS
 DN 134:178966
 TI Manufacture of α -olefin random copolymers having narrow molecular weight distribution in high polymerization activity
 IN Sugimura, Kenji; Takagi, Sachihiro; Fujita, Terunori
 PA Mitsui Chemicals Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 20 pp.
 CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001048911	A2	20010220	JP 1999-229188	19990813
PRAI	JP 1999-229188		19990813		
OS	MARPAT 134:178966				
GI					



AB At least 2 kinds of compds. selected from C \geq 3 α -olefins are copolymerd. in the presence of catalysts comprising (A) transition metal compds. I [M = Group 3-6 metal; R1-R5 = H, halo, hydrocarbyl, etc.; A = carbon, etc.; m, n = 0-2; E = substituent containing carbon, nitrogen, etc.; X = H, halo, etc.] and (B) \geq 1 compds. selected from organometallic compds., organic aluminuoxo compds., and compds. forming ion pairs by reaction with A. Thus, propylene and 1-butene were polymerized in the presence of Me aluminoxane and I (M = Zr, R1-R3 = H, R4-R5 = 2,6-dimethylphenyl, A = C, m = n = 0, p = 2, X = Cl) at 25° for 30 min to give a copolymer with propylene content 98 mol%.

L4 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:124186 CAPLUS

DN 134:178965

TI Manufacture of cyclic olefin copolymers having narrow molecular weight distribution in high polymerization activity

IN Sugimura, Kenji; Takagi, Sachihiro; Fujita, Terunori

PA Mitsui Chemicals Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 24 pp.

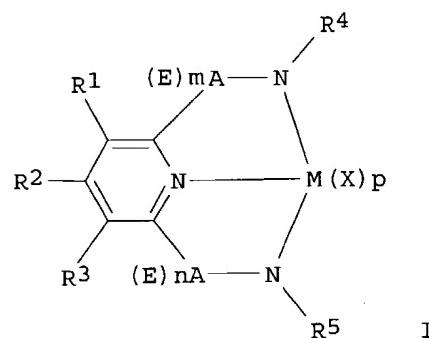
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001048910	A2	20010220	JP 1999-229185	19990813
PRAI	JP 1999-229185		19990813		
OS	MARPAT 134:178965				
GI					



AB Cyclic olefins and normal or branched olefins are polymerized in the presence of catalysts comprising (A) transition metal compds. I [M = Group 3-6 metal; R1-R5 = H, halo, hydrocarbyl, etc.; A = carbon, etc.; m, n = 0-2; E

= substituent containing carbon, nitrogen, etc.; X = H, halo, etc.] and (B) ≥ 1 compds. selected from organometallic compds., organic aluminumoxy compds., and compds. forming ion pairs by reaction with A. Thus, norbornene and ethylene were polymerized in the presence of Me aluminoxane and I ($M = Zr$, $R_1-R_3 = H$, $R_4-R_5 = 2,6$ -dimethylphenyl; A = carbon, $m = n = 0$, $p = 2$, X = Cl) at 25° for 1 h to give a copolymer with norbornene content 37 mol%.